

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims:

1 Claim 1 (currently amended): A method for producing a
2 structure on a substrate comprising the steps of
3 ~~depositing drops of a suspension of nanoparticles of a~~
4 ~~material in a liquid by means of a droplet generator,~~
5 ~~melting the nanoparticles of the deposited drops at least~~
6 ~~partially by exposition to laser light and~~
7 ~~solidifying the molten nanoparticles for forming the~~
8 ~~structure.~~

9 a) depositing drops of a suspension onto a substrate,
10 wherein said suspension comprises nanoparticles of
11 a material suspended in a liquid; and,
12 wherein said substrate lacks recesses in the
13 region where said drops are deposited onto said substrate;
14 and,

15
16 b) exposing said nanoparticles on said substrate to at
17 least one localized spot of laser light such that said
18 nanoparticles are at least partially melted by said at least
19 one localized spot of laser light; and,

20
21 c) solidifying said at least partially melted
22 nanoparticles, forming thereby said structure on said
23 substrate.

1 Claim 2 (currently amended): The method of claim 1 further
2 comprising the steps of
3 directing ~~the~~-said at least one localized spot of
4 laser light to a ~~at least one~~ curing point on ~~the~~-said
5 substrate and
6 translating ~~the~~-said at least one curing point ~~in~~
7 ~~respect to the~~ over said substrate.

1 Claim 3 (currently amended): The method of claim 1 further
2 comprising the steps of
3 depositing ~~the~~-said drops at a drop-off point on
4 said substrate and
5 translating ~~the~~-said drop-off point ~~in~~-with
6 respect to ~~the~~-said substrate.

1 Claim 4 (currently amended): The method of claim 1 further
2 comprising the steps of
3 directing ~~the~~-said at least one localized spot of
4 laser light to a curing point on ~~the~~-said substrate,
5 depositing ~~the~~-said drops at a drop-off point on
6 said substrate, and
7 translating ~~the~~-said curing point and ~~the~~-said
8 drop-off point ~~in respect to the~~ over said substrate.

1 Claim 5 (currently amended): The method of claim 4 wherein
2 ~~the~~-said curing point and ~~the~~-said drop-off point coincide.

1 Claim 6 (currently amended): The method of claim 4 wherein
2 ~~the~~-said curing point and ~~the~~-said drop-off point are
3 located at a distance from each other.

1 Claim 7 (currently amended): The method of claim 1 further
2 comprising the step of generating ~~the~~-said drops by
3 compressing a volume of ~~the~~-said suspension and thereby

4 squirting ~~the~~said drops through an opening onto ~~the~~said
5 substrate.

1 Claim 8 (currently amended): The method of claim 1 wherein
2 ~~the~~said liquid is selected from the group ~~comprising~~
3 consisting of toluene, terpineol, xylene, ~~and water and~~
4 mixtures thereof.

1 Claim 9 (currently amended): The method of claim 1 wherein
2 ~~an~~the exponential absorption coefficient of ~~the~~said at
3 least one localized spot of laser light in the~~said~~
4 suspension is at least approximately $0.1 \mu\text{m}^{-1}$, ~~in particular~~
5 ~~at least~~ $1 \mu\text{m}^{-1}$.

1 Claim 10 (currently amended): The method of claim 1 wherein
2 ~~the~~said suspension is deposited as a layer on ~~the~~said
3 substrate and wherein at least 80% of ~~the~~said at least one
4 localized spot of laser light is absorbed in ~~the~~said layer.

1 Claim 11 (currently amended): The method of claim 1 wherein
2 ~~the~~said nanoparticles ~~are of a~~ comprise at least one metal.

1 Claim 12 (currently amended): The method of claim 1 wherein
2 ~~the~~said liquid comprises toluene and ~~the~~said nanoparticles
3 comprise gold.

1 Claim 13 (currently amended): The method of claim 1 wherein
2 ~~an average diameter of the~~ size of said nanoparticles is
3 sufficiently small ~~for reducing a~~ that the melting point of
4 ~~the~~said nanoparticles is substantially below ~~a bulk the~~
5 melting point of the bulk material comprising said
6 nanoparticles.

1 Claim 14 (currently amended): The method of claim 1 wherein
2 an average diameter of the said nanoparticles is less than
3 approximately 100 nm, in particular less than 10 nm,
4 preferably between 1 nm and 5 nm.

1 Claim 15 (currently amended): The method of claim 1 wherein
2 the said structure is a superconductor.

1 Claim 16 (currently amended): The method of claim ±2 wherein
2 an intensity distribution of the one or more of said at
3 least one localized spot of laser light at the said curing
4 point is non-Gaussian.

1 Claim 17 (currently amended): The method of claim ±2 wherein
2 an intensity distribution of the one or more of said at
3 least one localized spot of laser light at the said curing
4 point has at least two spatially separated maxima.

1 Claim 18 (currently amended): The method of claim ±2
2 comprising the step of depositing wherein said drops are
3 deposited along a line strip on said substrate, wherein an
4 intensity distribution of the said at least one localized
5 spot of laser light at the said curing point has a local
6 minimum on a center line of said line strip.

1 Claim 19 (currently amended): The method of claim ±2
2 comprising the steps of
3 depositing wherein said drops are deposited along a
4 line strip on said substrate, wherein said exposing of said
5 nanoparticles comprises
6 directing at least two laser beams onto said
7 substrate at said curing point, such that said laser beams
8 impinging-impinge on opposite sides of a center line of said
9 line strip.

1 Claim 20 (currently amended): The method of claim 1
2 ~~comprising the step of repetitively pulsing said laser light~~
3 wherein said at least one localized spot of laser light is
4 pulsed.

1 Claim 21 (currently amended): The method of claim 1 further
2 comprising immediately following step (a), the step of
3 _____ a₁) evaporating at least part of said liquid. after
4 ~~depositing said drops and before bringing said nanoparticles~~
5 ~~into contact with said laser light.~~

1 Claim 22 (currently amended): The method of claim 1 further
2 comprising the step of heating said substrate by a means
3 separate from said laser light.

1 Claim 23 (currently amended): The method of claim 1 wherein
2 said substrate is transparent ~~for~~ to said laser light.

1 Claim 24 (currently amended): The method of claim 1 further
2 comprising the step of generating, above or below said
3 structure, a ~~structured~~ polymer layer by
4 _____ depositing drops of a polymerizable liquid, and
5 _____ polymerizing said drops of deposited polymerizable
6 liquid.

1 Claim 25 (original): The method of claim 24, wherein said
2 drops of deposited polymerizable liquid are polymerized
3 using UV radiation.

Claims 26-29 (canceled)

Claims 30-34 (withdrawn)

1 Claim 35 (new): The method of claim 9 wherein said
2 exponential absorption coefficient of said at least one
3 localized spot of laser light in said suspension is at least
4 approximately $1 \mu\text{m}^{-1}$.

1 Claim 36 (new): The method of claim 14 wherein said average
2 diameter of said nanoparticles is less than approximately
3 10 nm.

1 Claim 37 (new): The method of claim 36 wherein said average
2 diameter of said nanoparticles in the range from
3 approximately 1 nm to approximately 5 nm.

1 Claim 38 (new): A method for making a capacitor comprising:

2
3 a) depositing a first electrically conductive
4 structure on an insulating substrate as in claim 1; and,

5
6 b) depositing a dielectric structure on said conductive
7 structure as in claim 24; and,

8
9 c) depositing a second electrically conductive
10 structure on said dielectric structure as in claim 1 such
11 that said first conductive structure and said second
12 conductive structure surround said dielectric structure
13 forming thereby a capacitor.

1 Claim 39 (new): A method for crossing a first electrical
2 conductor and a second electrical conductor on an insulating
3 substrate while maintaining electrical isolation between
4 said first and second electrical conductors, comprising:

5
6 a) depositing a first electrically conductive
7 structure on an insulating substrate as in claim 1; and,

8 b) depositing an insulating structure on said
9 conductive structure as in claim 24; and,

10
11 c) depositing a second electrically conductive
12 structure on said insulating structure as in claim 1 such
13 that said first conductive structure and said second
14 conductive structure are separated by said insulating
15 structure and maintain electrical isolation thereby.